

WHAT IS CLAIMED:

- 1 1. A light guide plate, comprising:
2 a first surface having a first light control pattern; and
3 a second surface having a second light control pattern,
4 wherein said first surface faces said second surface.

- 1 2. The light guide plate of claim 1, further comprising:
2 a third surface;
3 a fourth surface;
4 a fifth surface; and
5 a sixth surface.

- 1 3. The light guide plate of claim 2, wherein the first light control pattern is a first
2 prism pattern.

- 1 4. The light guide plate of claim 3, wherein the first prism pattern comprises a
2 plurality of first prisms aligned in a row to a first direction.

- 1 5. The light guide plate of claim 4, wherein the plurality of first prisms have a
2 triangular cross-sectional shape.

- 1 6. The light guide plate of claim 5, wherein the triangular cross-sectional shape is an
2 equilateral triangle.

1 7. The light guide plate of claim 5, wherein the triangular cross-sectional shape has a
2 vertex angle ranging between 100° and 120°.

1 8. The light guide plate of claim 7, wherein the vertex angle is 108°.

1 9. The light guide plate of claim 5, wherein the plurality of first prisms have a first
2 prism surface and a second prism surface, and
3 wherein the first prism surface and the second prism surface includes a concavo-convex
4 pattern.

1 10. The light guide plate of claim 9, wherein the concavo-convex pattern has a
2 triangular prism shape.

1 11. The light guide plate of claim 9, wherein the concavo-convex pattern has a
2 rounded corner.

1 12. The light guide plate of claim 2, wherein at least one of the third surface, the
2 fourth surface, the fifth surface and the sixth surface is a light incident surface.

1 13. The light guide plate of claim 12, wherein the second light control pattern is a
2 second prism pattern.

1 14. The light guide plate of claim 13, wherein the second prism pattern comprises a
2 plurality of second prisms aligned in a row to a second direction.

1 15. The light guide plate of claim 14, wherein the second direction is parallel with the
2 light incident surface.

1 16. The light guide plate of claim 15, wherein the first light control pattern comprises
2 a first prism pattern with a plurality of first prisms aligned in a row to a first direction, and
3 wherein the first direction is perpendicular to the second direction.

1 17. A liquid crystal display, comprising:
2 a liquid crystal display panel;
3 a backlight assembly; and
4 a module that accommodates said liquid crystal display panel and said backlight
5 assembly,
6 wherein said backlight assembly comprises:
7 a light guide plate comprising;
8 a first surface having a first light control pattern; and
9 a second surface having a second light control pattern,
10 wherein the first surface faces the second surface.

1 18. The liquid crystal display of claim 17, wherein the first light control pattern is a
2 first prism pattern comprising a plurality of first prisms aligned in a row to a first direction,
3 wherein the second light control pattern is a second prism pattern comprising a plurality
4 of second prisms aligned in a row to a second direction, and
5 wherein the first direction is perpendicular to the second direction.

1 19. The liquid crystal display of claim 18, wherein the plurality of first prisms have a
2 triangular cross-sectional shape, and
3 wherein the triangular cross-sectional shape has a vertex angle ranging between
4 100° and 120°.

1 20. The liquid crystal display of claim 18, wherein the plurality of first prisms has a
2 first prism surface and a second prism surface that include a concavo-convex pattern.